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(54) Title: METHOD FOR THE DIAGNOSIS OR THE PROGNOSIS OF ALZHEIMER DISEASE THERAPEUTICAL COM-
POSITION FOR PREVENTING OR TREATING ALZHEIMER DISEASE

(57) Abstract: The invention relates to a method of predicting an increased risk of a patient having Alzheimer's disease (AD) or for a subject of developing AD comprising: a) assaying a DNA-containing biological sample for the allele of the APOE gene; b) assaying the plasmatic level of protein Lp(a) or glycoprotein Apo(a), wherein the presence of an $\epsilon 4$ allele of the APOE gene and an increased plasmatic level of [Lp(a)]/Apo(a) indicates an increased risk for the patient having Alzheimer's disease or developing AD. The invention further provides a therapy for preventing or treating AD consisting of decreasing the plasmatic level of Lp(a) or the interaction of Lp(a) with its receptor in a patient bearing at least one APOE $\epsilon 4$ allele.

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